## 1 IN THE CLAIMS

2	Please add new claims 48-64. This listing of claims will replace all prior versions, and		
3	listings, of claims in the subject application:		
4			
5	1 30. (Cancelled)		
6			
7	31. (Withdrawn)	A method for coating glass for use in a solid state standard, said method	
8	comprising the steps of:		
9	applying a layer of a first fluorescent material;		
10	applying a layer of a second fluorescent material, said second fluorescent material		
11		being different from said first fluorescent material;; and	
12	applying a layer of a third fluorescent material;		
13	wherein each	said layer is baked between each said application.	
14			
15	32. (Withdrawn)	A method according to claim 31, wherein said method is used to coat	
16	optical glass.		
17			
18	33. (Withdrawn)	A method according to claim 31, wherein said method is used to coat	
19	optical quartz.		
20			
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1	34. (Withdrawn)	A method according to claim 31, wherein said layer is selected from a	
2	group consisting of BaF <sub>2</sub> , CaF <sub>2</sub> , CsI, KBr, Kcl, KRS-5, NaCl, HFO <sub>2</sub> , MgO, Fluroisothiocyanate		
3	(FITC), Fluorescene, Rhodamine B, Quinine Sulfate, Bodipy and Green Fluorescent Protein.		
4			
5	35. (Withdrawn)	A method according to claim 31, wherein said first fluorescent material is	
6	substantially similar to said third fluorescent material.		
7			
8	36. (Withdrawn)	A method according to claim 31, wherein said fluorescent material has a	
9	known absorption wavelength.		
10			
11	37. (Withdrawn)	A method according to claim 31, wherein said baking takes place at	
12	approximately at 250 degrees Centigrade.		
13			
14	38. (Withdrawn)	A method for coating glass for use in a solid state standard, said method	
15	comprising the steps of:		
16	apply	ing a layer of a first absorbent material;	
17	apply	ing a layer of a second absorbent material, said second absorbent material	
18		being different from said first absorbent material;; and	
19	apply	ing a layer of a third absorbent material;	
20	wherein each	said layer is baked between each said application.	
21			

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optical glass. 2 3 4 40. (Withdrawn) A method according to claim 38, wherein said method is used to coat optical quartz. 5 6 A method according to claim 38, wherein said layer is selected from a 7 41. (Withdrawn) group consisting of AgBr, AgCl, Al<sub>2</sub>O<sub>3</sub>, CdTe, Ge, Si, SiO<sub>2</sub>, TiO<sub>2</sub>, ZnS, and ZnSe. 8 9 10 42. (Withdrawn) A method according to claim 38, wherein said first absorbent material is 11 substantially similar to said third absorbent material. 12 A method according to claim 38, wherein said absorbent material has a 13 43. (Withdrawn) 14 known absorption wavelength. 15 16 44. (Withdrawn) A method according to claim 38, wherein said baking takes place at approximately at 250 degrees Centigrade. 17 18 19 20 21 22

A method according to claim 38, wherein said method is used to coat

39. (Withdrawn)

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1	45. (Withdrawn)	A method for coating glass for use in a solid state standard, said method			
2	comprising the steps of:				
3	applying a primary layer of TiO <sub>2</sub> ;				
4	apply	applying one or more layers of SiO <sub>2</sub> ; and			
5	apply	applying a final layer of TiO <sub>2</sub> ;			
6	wherein each	wherein each layer is baked between said applications.			
7		J			
8	46. (Withdrawn)	A method according to claim 45, wherein said method is used to coat			
9	optical glass.				
10		· ·			
11	46. (Withdrawn)	A method according to claim 45, wherein said method is used to coat			
12	optical quartz.				
13					
14	47. (Withdrawn)	A method according to claim 45, wherein said baking takes place at			
15	approximately at 250 degrees Centigrade.				
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1	48. (New)	A solid state standard comprising:	
2		glass coated with a material, said material differing in concentration from said	
3		glass linearly in a 20 standard curve;	
4		said material having an optical density which can be read in an absorn-ion	
5		microplate reader; and	
6		said material being such that said reader can read a concentration of a sample at	
7		standard curve points.	
8			
9	49. (New)	A solid state standard according to claim 48, wherein said standard comprises	
10	coated optical quartz.		
11			
12	50. (New)	A solid state standard according to claim 48, wherein said material is selected	
13	from the group consisting of a known flourescent compound, a known absorbent compound or a		
14	known spectroscopic compound.		
15			
16	51. (New)	A solid state standard according to claim 48, wherein said standard is for use with	
17	flourescent spectroscopy.		
18			
19	52. (New)	A solid state standard according to claim 48, wherein said standard is for use with	
20	absorbent spectroscopy.		
21			
22			

1	53. (New)	A solid state standard according to claim 48, wherein said standard is for use with		
2	ultra violet s	ultra violet spectroscopy.		
3				
4	54. (New)	A solid state standard according to claim 48, wherein said standard is for use with		
5	visible spectroscopy.			
6				
7	55. (New)	A solid state standard according to claim 48, wherein said standard is for use with		
8	Infra-red spectroscopy.			
9				
10	56. (New)	A solid state standard according to claim 48, wherein said standard is for use with		
11	laser spectro	laser spectroscopy.		
12				
13	57. (New)	A solid state standard according to claim 48, wherein said standard is for use with		
14	luminescence spectroscopy.			
15				
16	58. (New)	A solid state standard according to claim 48, wherein said standard is		
17	manufactured by a method for coating glass comprising the steps of:			
18		applying a layer of a first absorbent material;		
19		applying a layer of a second absorbent material, said second absorbent material		
20		being different from said first absorbent material; and		
21		applying a layer of a third absorbent material;		
22	wher	ein each said layer is baked between each said application.		

1 59. (New) optical glass. 2 3 4 60. (New) A solid state standard according to claim 58, wherein said method is used to coat optical quartz. 5 6 A solid state standard according to claim 58, wherein said layer is selected from a 7 61. (New) 8 group consisting of AgBr, AgCl, Al<sub>2</sub>O<sub>3</sub>, CdTe, Ge, Si, SiO<sub>2</sub>, TiO<sub>2</sub>, ZnS, and ZnSe. 9 10 62. (New) A solid state standard according to claim 58, wherein said first absorbent material 11 is substantially similar to said third absorbent material. 12 A solid state standard according to claim 58, wherein said absorbent material has 13 63. (New) 14 a known absorption wavelength. 15 16 64. (New) A solid state standard according to claim 58, wherein said baking takes place at approximately at 250 degrees Centigrade. 17 18 19 20 21

A solid state standard according to claim 58, wherein said method is used to coat

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